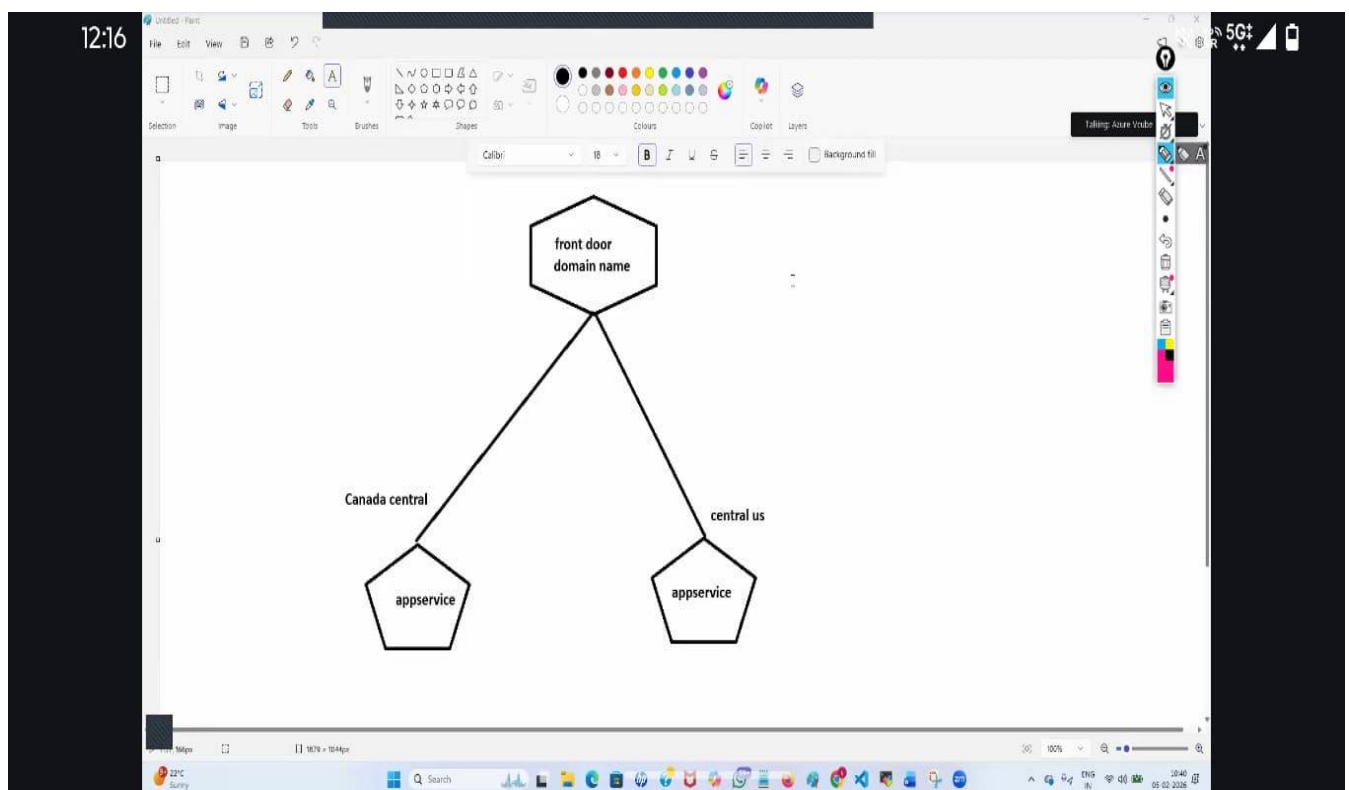
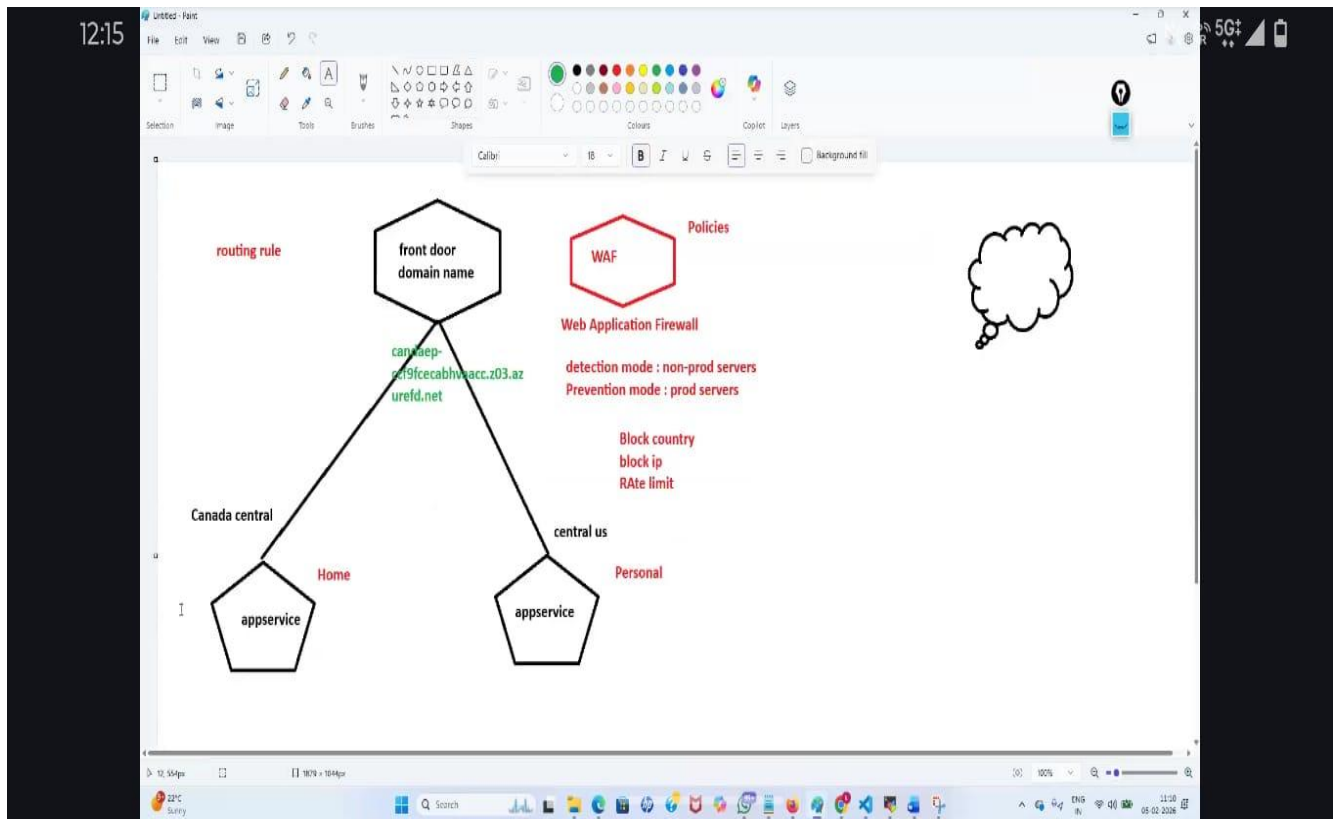


Front Door (Load Balancer)

Azure front door : it is global load balancer

- => it works on url/path based routing
- => it even distribute traffic based on weightage
- => it works on OSI layer 7 (application layer)
- => it supports http and https based application
- => it supports WAF (web application firewall)
- => CDN





- ✓ Create two apps in two different Regions
- ✓ US & INDIA

UwebUS - Mic x newslo (uweb x Create a Front x CLOUD-RECO x NOTES - Google x Fourth Coffee x Fourth Coffee x +

portal.azure.com/#@reddylkp2004gmail.onmicrosoft.com/resource/subscriptions/5d75b66d-66bf-44e0-8d7e-7e61e4b043d7/resourceGroups/urgus...

Microsoft Azure Upgrade Search resources, services, and docs (G+/) Copilot redditlkp2004@gmail.co... DEFAULT DIRECTORY (REDDYLKP...

Home > App Services

App Services

Default Directory (reddylkp2004gmail.onmicrosoft...)

+ Create ▾ ...

[You are viewing a new version of Browse experience. Click here to access the old experience.](#)

<input type="checkbox"/>	Name ↑	
<input type="checkbox"/>	appb	...
<input type="checkbox"/>	Uwebindia	...
<input type="checkbox"/>	UwebUS	...

Showing 1 - 3 of 3. Display count auto ▾

UwebUS

Web App

Search

[Browse](#) [Stop](#) [Swap](#) [Restart](#) [Delete](#) [Refresh](#) ...

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Microsoft Defender for Cloud
- Events (preview)
- Log stream
- Resource visualizer
- Deployment
 - Deployment slots
 - Deployment Center

[Add or remove favorites by pressing Ctrl+Shift+F](#)

[Consider using Azure Front Door since your app receives incoming requests from multiple regions.](#)

Essentials

Resource group (move)
[urgus](#)

Status
Running

Location (move)
Central US

Subscription (move)
[Azure subscription 1](#)

Subscription ID
5d75b66d-66bf-44e0-8d7e-7e61e4b043d7

Tags (edit)
[Add tags](#)

Default domain
[uwebus.azurewebsites.net](#)

App Service Plan
[ASP-UrgUS-a09a \(P0v3: 1\)](#)

Operating System
Windows

Health Check
[Not Configured](#)

GitHub Project
[https://github.com/udayreddy216-code/Bak...](#)

JSON View

9 Search

ENG IN 17:51 05/02/2026

UwebUS - Mic x newslo (uwe x Create a Front x CLOUD-RECO x NOTES - Goo x Fourth Coffee x Fourth Coffee x +

portal.azure.com/#@reddylkp2004gmail.onmicrosoft.com/resource/subscriptions/5d75b66d-66bf-44e0-8d7e-7e61e4b043d7/resourceGroups/urgus...

Microsoft Azure Upgrade Search resources, services, and docs (G+/) Copilot redditlkp2004@gmail.co... DEFAULT DIRECTORY (REDDYLPK...

Home > App Services > UwebUS

App Services

Default Directory (reddylkp2004gmail.onmicrosoft...

+ Create ▾ ...

You are viewing a new version of Browse experience. Click here to access the old experience.

- ☐ Name 1
- ☐ appb ...
- ☐ Uwebindia ...
- ☒ UwebUS ...

Showing 1 - 3 of 3. Display count auto ▾

UwebUS | Deployment Center

Web App

Search

- Overview
- Activity log
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- Log stream
- Resource visualizer
- Deployment
 - Deployment slots
 - Deployment Center**

Settings Logs FTPS Credentials

Refresh Delete

Time	Deployme...	Author	Status	Message
Thursday, 5 February 2026 (1)				
05/02/2026, 04:...	8978743	kuchalakanti	Succeeded (Act...	Update About.cshhtml

17:56 05/02/2026

UwebUS - Mic x newslo (uwe x Create a Front x CLOUD-RECO x NOTES - Goo x Fourth Coffee x Fourth Coffee x +

portal.azure.com/#@reddylkp2004gmail.onmicrosoft.com/resource/subscriptions/5d75b66d-66bf-44e0-8d7e-7e61e4b043d7/resourceGroups/urgus...

Microsoft Azure Upgrade Search resources, services, and docs (G+/) Copilot redditlkp2004@gmail.co... DEFAULT DIRECTORY (REDDYLPK...

Home > App Services > UwebUS

App Services

Default Directory (reddylkp2004gmail.onmicrosoft...

+ Create ▾ ...

You are viewing a new version of Browse experience. Click here to access the old experience.

- ☐ Name 1
- ☐ appb ...
- ☐ Uwebindia ...
- ☒ UwebUS ...

Showing 1 - 3 of 3. Display count auto ▾

UwebUS | Deployment slots

Web App

Search

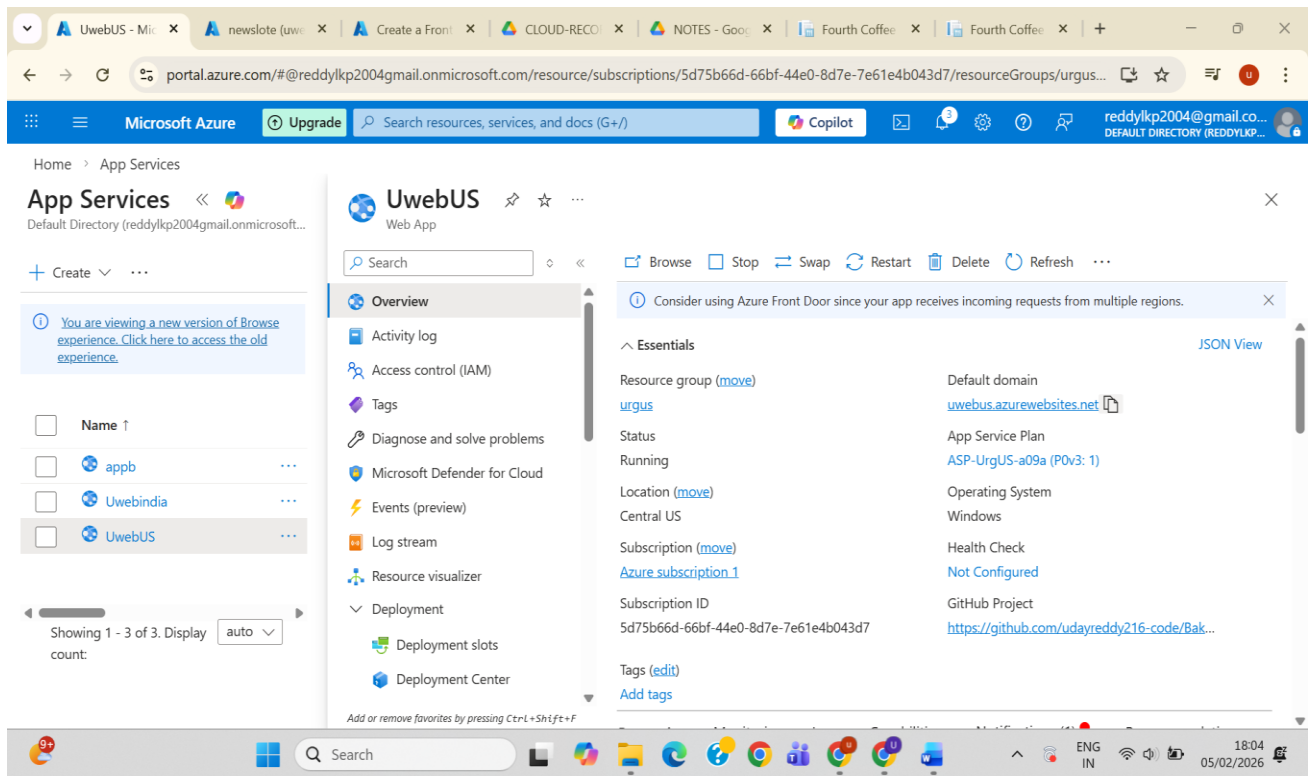
- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Microsoft Defender for Cloud
- Events (preview)
- Log stream
- Resource visualizer
- Deployment
 - Deployment slots**
 - Deployment Center

Save Discard Add Swap Logs Refresh Send us your feedback

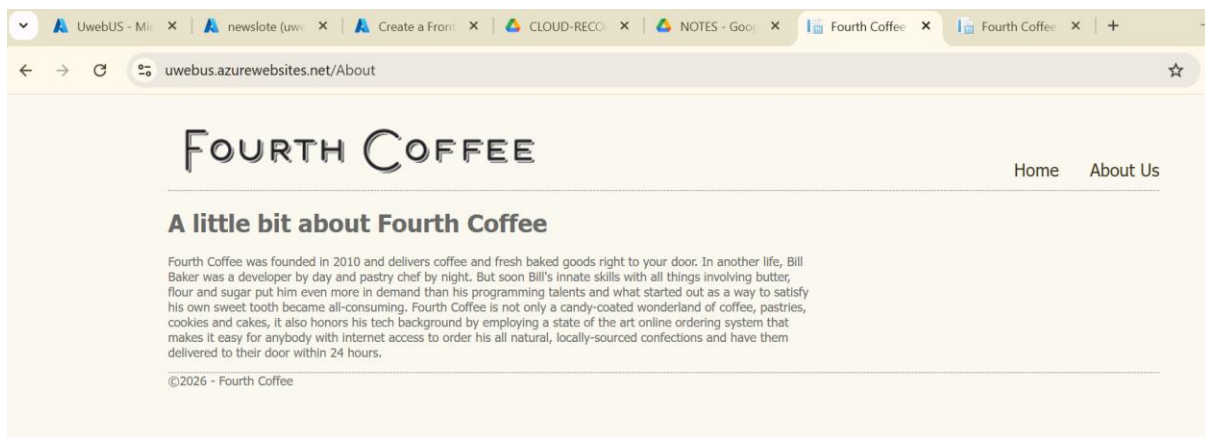
Deployment slots are live apps with their own hostnames. App content and configurations elements can be swapped between two deployment slots, including the production slot.

Name	Status	App service plan	Traffic %
uwebus PRODUCTION	Running	ASP-UrgUS-a09a	100
uwebus-uwebus	Running	ASP-UrgUS-a09a	0

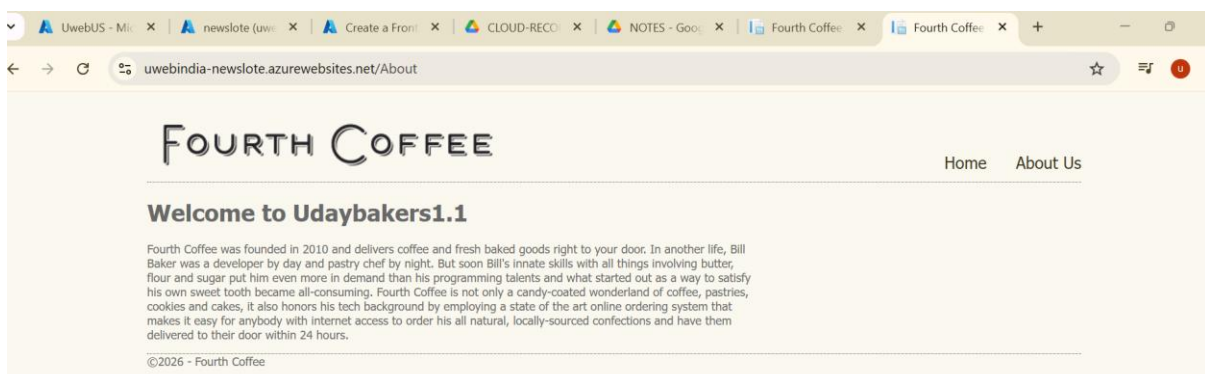
17:59 05/02/2026



❖ **Copy domain name and search on browser and you see below result.**



❖ **Do same for webIndia and check the Result**



❖ Create Azure Front door

Microsoft Azure

Search resources, services, and docs (G+/I)

Home > Load balancing and content delivery | Azure Front Door > Compare offerings

Create a Front Door profile

Microsoft Azure

Tier *

Endpoint settings

Endpoint name *

Endpoint hostname

Origin type *

Origin host name *

Private link

Caching

WAF policy

☐

Standard
Content delivery optimized

☒

Premium
Security optimized

candaep

✓

candaep-ccf9fcecabhvaacc.z03.azurefd.net

App services

▼

canadaapp9234.azurewebsites.net

▼

☐ Enable private link service

i

Private link connections from Azure Front Door must be approved at the Azure origin. [Learn more](#)

↗

☐ Enable caching

▼

[Create new](#)

Review + create

< Previous

Next: Tags >

Automation options

Create a Front Door profile

Microsoft Azure

i Running final validation...

⚠ AFD configuration updates take up to 20 minutes to take effect. Back to Back changes may take up to 40

* Basics Tags Review + create

Basics

Subscription	KrishnaReddy-DEV-ENV
Resource group	canada-RG
Location	Canada Central
Name	azfd01
Tier	Azure Front Door Premium

Endpoint

Endpoint hostname	candaep-ccf9fcecabhvaacc.z03.azurefd.net
Origin	canadaapp9234.azurewebsites.net
Caching	Disabled
WAF policy	(New) defaultpolicy

Create

< Previous

Next

Automation options

- ✓ We added only Canada central bcz the traffic will only go to central not for Central-US

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The main content area displays the 'Overview' page for the Front Door resource 'azfd01'. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Settings, Security, Analytics, Monitoring, Automation, and Help. The main content area shows the 'Essentials' section with details such as Resource group (canada-RG), Status (Active), Location (Global), Subscription (KrishnaReddy-DEV-FNV), and Subscription ID. Below this, the 'Properties' section shows the 'Endpoints' tab with the endpoint hostname 'candaep-cc9f9cecabhvaacc.z03.azurefd.net' and its provisioning status (Provision succeeded, Enabled). The 'Security policy' section shows 'defaultpolicy-4d12f120' with a provisioning status of 'Provision succeeded'. The 'Routes' section shows 'candaep-cc9f9cecabhvaacc.z03.azurefd.net' with a provisioning status of 'Provision succeeded'.

- ✓ Copy **endpoint host name** and browse – it will take some time to host page.
- ✓ **Next** – Click on Origin groups there we see default Group which we added for Canada region.
- ✓ Let's **add** another by clicking on **default origin group** shows below.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information. The main content area displays the 'Origin groups' page for the Front Door resource 'azfd01'. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Settings, Security, Analytics, Monitoring, Automation, and Help. The main content area shows the 'Origin groups' section with a table listing the origin groups. The table has columns for Name, Endpoints, Routes, and Provisioning state. The table shows one origin group, 'default-origin-group', with one associated endpoint and one associated route. The provisioning state for both the endpoint and the route is 'Succeeded'.

Name	Endpoints	Routes	Provisioning state
default-origin-group	1 associated endpoint candaep-cc9f9cecabhvaacc.z03.azurefd.net	1 associated route	Succeeded

Update origin group

Microsoft Azure

An origin group is a set of origins to which Front Door load balances your client requests. [Learn more](#)

Name: default-origin-group

Origins

Origins are the application servers where Front Door will route your client requests. Utilize any publicly accessible application server, including App Service, Traffic Manager, Private Link, and many others. [Learn more](#)

[+ Add an origin](#)

Origin host name	Status	Priority	Weight
canadaapp9234.azurewebsites.net	Enabled	1	1000

Session affinity: ☐ Enable session affinity

Health probes

If enabled, Front Door will send periodic requests to each of your origins to determine their proximity and health for load balancing purposes. [Learn more](#)

Status: ☒ Enable health probes

Path: /

Protocol: ☒ HTTP ☐ HTTPS

[Update](#) [Cancel](#) [Close](#)

- ✓ Above we see **Weight-1000** is on **Canada**.
- ✓ Let's add another origin, by clicking on **Add an Origin**.

Add an origin

Microsoft Azure

[Go back to origin group](#)

Name: centralus

Origin type: App services

Host name: cenralappw34.azurewebsites.net

Origin host header: cenralappw34.azurewebsites.net

Certificate subject name validation: ☒ Enable the validation

This validation is required if private link is enabled. [Learn more](#)

HTTP port: 80

HTTPS port: 443

Priority: 1

Weight: 1000

Private link: ☐ Enable private link service

Private link connections from Azure Front Door must be approved at the Azure origin. [Learn more](#)

Status: ☒ Enable this origin

[Add](#) [Cancel](#) [Close](#)

Update origin group

Microsoft Azure

Origins are the application servers where Front Door will route your client requests. Utilize any publicly accessible application server, including App Service, Traffic Manager, Private Link, and many others. [Learn more](#)

+ Add an origin

Origin host name	Status	Priority	Weight
canadaapp9234.azurewebsites.net	Enabled	1	1000
cenralappw34.azurewebsites.net	Enabled	1	1000

Session affinity ☐ Enable session affinity

Health probes
If enabled, Front Door will send periodic requests to each of your origins to determine their proximity and health for load balancing purposes. [Learn more](#)

Status ☒ Enable health probes

Path

Protocol ☒ HTTP ☐ HTTPS

Probe method

Interval (in seconds)

Update **Cancel** **Close**

- ✓ Added both origins.
- ✓ Above Path: /
- ✓ Protocol: HTTP

Path

Protocol ☒ HTTP ☐ HTTPS

Probe method

Interval (in seconds)

Load balancing
Configure the load balancing settings to define what sample set we need to use to call the backend as healthy or unhealthy. The latency sensitivity with value zero (0) means always send it to the fastest available backend, else Front Door will round robin traffic between the fastest and the next fastest backends within the configured latency sensitivity. [Learn more](#)

Sample size

Update **Cancel** **Close**

- Below default group has two servers with same weight, when users are accessing, traffic will be distributed to two regions of the app service.

Origin groups

Name	Provisioning state	Endpoint
default-origin-group	1 associated	canadaapp9234.azurewebsites.net

Update origin group

Microsoft Azure

Origins are the application servers where Front Door will route your client requests. Utilize any publicly accessible application server, including App Service, Traffic Manager, Private Link, and many others. [Learn more](#)

+ Add an origin

Origin host name	Status	Priority	Weight
canadaapp9234.azurewebsites.net	Enabled	1	1000
cenralappw34.azurewebsites.net	Enabled	1	1000

- ✓ Copy **endpoint host name** and browse – it will take some time to host page.

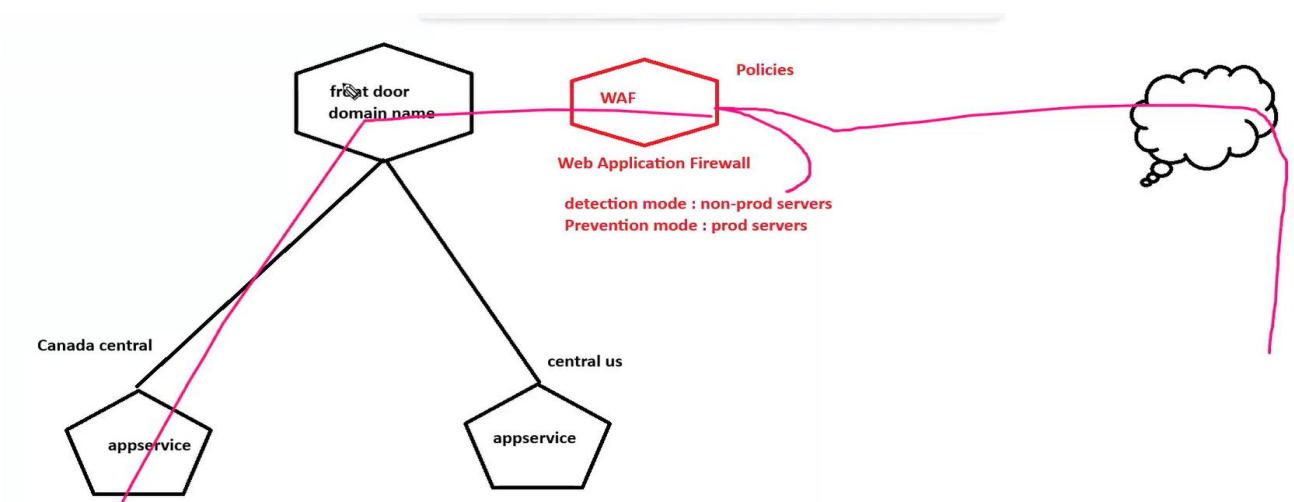
Note: In **Front Door** we can also access machines using **route based**. Example **Home, Personal**, which we are used in Application gateway.

- **Front door for Global load balancer (Supports- Routing and CDN)**
 - For routing add any region on front door and give its path.
 - For other add another region and give its path
 - Same like home/personal but here we are using Domain name **/About**
 - **Application gateway is for Regional load balancer (Supports Routing)**
-
-

WAF (**Web Application Firewall**)

- ✓ It supports two load balancers.

- FRONT DOOR
- APPLICATION GATEWAY



- ✓ We write policies on WAF
- ✓ **Detection mode: Non-Production Servers**
 - Traffic coming from outside and hit to **WAF**, it **detects** the **policies** but it **won't** stop the **traffic**, traffic goes to front door and hit appservice.
 - It's for testing applications, rules

✓ **Prevention mode: Production Servers**

- Traffic coming from outside and hit to **WAF**, if the policies are not matching it will drop the packets, user cannot access the application.

❖ **WAF** has its own **Microsoft managed policies** and also, we can write our own **Custom policies** like-

- **Block country**
- **Block IP**
- **Rate Limit** – its works for virus like when ever **thousands of requests** coming from single machine, it will identify and drop those requests.